À. Sheet <u>1</u> of U.S. Department of Commerce Form PTO-1449 Att rney Docket N . 0756-1790 Serial N . N t Yet Assign d Patent and Trademark Office (Rev. 8-83) INFORMATION DISCLOSURE STATEMENT Applicant: Toshimitsu KONUNMA et al. (Use several sheets if necessary) Filing Date: April 14, 1998 Gr up: 2515 U.S. PATENT DOCUMENTS **Examiner Document Number** Date Class Subclass Filing Date Name Initial (if appropriate) DN 3,982,820 9/28/76 Hattori 359 74 4,640,583 2/3/87 Hoshikawa 359 82 1/10/89 **Tsuboyama** 359 79 4,796,979 6/12/90 359 79 4,932,757 Hanyu 5,083,855 1/28/92 Clark 359 72 5/18/93 Kojima 359 82 5,212,575 7/13/93 Inaba 359 56 5,227,900 5/2/95 Ishiwata 359 67 5,412,494 5,469,281 11/21/95 Katakura 345 97 275.1 8/16/94 369 5,339,306 Yoshenaga DN 12/5/95 359 56 5,473,449 Takemura FOREIGN PATENT DOCUMENTS Class **Subclass Translation Document Number Date** Country Yes No OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Antiferroelectric Chiral Smectic Phases Responsible for the Tristable Switching in MHPOBC, DN A.D.L. Chandani, E. Gorecka, Y. Ouchi, H. Takezoe, A. Fukuda, Tokyo Inst. of Tech. 6/12/89. pgs 34-37

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Form PTO-1449 (Rev. 8-83)

U.S. Department of Commerce Patent and Trademark Office

Attorney D ck t N . 0756-1790

Serial No. Not Yet Assigned

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant: Toshimutsu KONUMA et al.

Filing Date: April 14, 1998

Group: 2515

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Sheet <u>1</u> of <u>5</u> Serial No. 09/059,562

| Form PTO-1449 U.S. Department of Commerce |   |                      | Atty. Docket No: 0756-1790 Serial No. 09/059,562 |  |                  |                       |              |
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| (Rev. 8-83)                               | Patent and Trademark Office   |                      | Applicants: Toshimitsu KONUMA, et al.            |  |                  |                       |              |
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| Examiner<br>Initial                       | Patent Number   | Issue<br>Date        | Patentee   | Class  | Subclass         | Filing<br>(if app     |              |
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| DN  | 09-211462   | 08/15/97             | Japan  |  |                  | Abstract              |              |
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|                     | Sheets if necessary)  |                       | Filing Date: April 14,                | 1998   | Group: 28        | 872                    |           |
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| AN                  | 06-186533   | 07/08/94              | Japan                                 |  |                  | Abstract               |           |
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Sheet <u>3</u> of <u>5</u> 756-1790 Serial No. 09/059,562 Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office (Rev. 8-83) Applicants: Toshimitsu KONUMA, et al. INFORMATION DISCLOSURE STATEMENT Group: 2872 Filing Date: April 14, 1998 (Use several sheets if necessary) **U.S. PATENT DOCUMENTS** Examiner Patent Number Issue Patentee Class Subclass Filing Date Initial Date (if approp.) FOREIGN PATENT DOCUMENTS Document Number Date Country Class Subclass Translation Yes M 06-337418 12/06/94 Japan Abstract 06-347807 12/22/94 Japan Abstract 06-160812 06/07/94 Japan Abstract 05-045636 02/26/93 Japan Abstract 05-297364 11/12/93 Abstract Japan 04-243228 08/31/92 Japan Abstract DN 04-362918 12/15/92 Abstract Japan OTHER DOCUMENTS (Including Author, Title, Relevant Pages, Date, Place of Publication) DNAVYEN 12/81/00 Examiner Date Considered

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| Form PTO-           | 1449 U.S. Department of Commerce               |                      | Atty. Docket No: 0756-1790 Serial No. 09/059,562 |  |                  |                       |  |
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| (Rev. 8-83)         | Patent and Trademark Office                    |                      | Applicants: Toshimitsu                           | KONUMA,  | et al.           |                       |  |
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| <i>9</i> √          | 62-007022                                      | 01/14/87             | Japan  |  |                  | Abstract              |  |
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Sheet <u>5</u> of <u>5</u> Serial No. 09/059,562 Atty. Docket No: 0756-1790 Form PTO-1449 U.S. Department of Commerce Patent and Trademark Office Applicants: Toshimitsu KONUMA, et al. (Rev. 8-83) INFORMATION DISCLOSURE STATEMENT Group: 2872 Filing Date: April 14, 1998 (Use several sheets if necessary) **U.S. PATENT DOCUMENTS** Filing Date Patentee Class Subclass Patent Number Issue Examiner (if approp.) Date Initial FOREIGN PATENT DOCUMENTS Subclass Translation Class Document Number Date Country Yes No Abstract DW 04-136814 05/11/92 Japan OTHER DOCUMENTS (Including Author, Title, Relevant Pages, Date, Place of Publication) 12/01/00 DNGMEN Date Considered Examiner \*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance

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Sheet <u>1</u> of <u>5</u>

Atty. Docket No: 0756-1790 Serial No. 09/059,562 Form PTO-1449 U.S. Department of Commerce RADEMARY Patent and Trademark Office (Rev. 8-83) Applicants: Toshimitsu KONUMA, et al. INFORMATION DISCLOSURE STATEMENT Group: 2872 Filing Date: April 14, 1998 (Use several sheets if necessary) **U.S. PATENT DOCUMENTS** Class Subclass Filing Date Patent Number Issue Patentee Examiner (if approp.) Date Initial 5,270,846 12/14/93 Watanabe et al. 10/11/94 Fukuchi et al. 5,354,497 Nishiyama et al. 5,389,287 02/14/95 12/05/95 Yamada et al. 5,473,450 Nishi et al. 07/30/96 5,541,747 Shimizu et al. 09/03/96 5,552,913 5,594,569 01/14/97 Konuma et al. 06/10/97 Yamada et al. 5,638,194 Shimizu et al. 04/14/98 5,739,882 FOREIGN PATENT DOCUMENTS Class Subclass Translation Document Number Date Country Yes No Abstract Japan 9-211465 08/15/97 WIPO English WO 88/08552 11/03/88 Abstract 10/11/90 Japan 2-503360 Abstract 6-40931 05/31/94 Japan Abstract 7-13143 01/17/95 Japan Abstract 6-331948 12/02/94 Japan Abstract 08/05/94 Japan 6-214218 OTHER DOCUMENTS (Including Author, Title, Relevant Pages, Date, Place of Publication) Michio Shimizu, et al., "CHARACTERISTIC OF A NOVEL LIQUID CRYSTAL CELL WITH MIXTURE OF FLC AND U.V. CURABLE RESIN," Mol. Cryst. Liq. Cryst. Overseas Publishes Association, Vol. 263, (1995), pp. 585-587. Date Considered Examiner \*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation-if not in conformance and not considered. Include copy of this form with next communication to applicant. See paper # 13

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| INFORM                  | ATION DISCLOSURE STATEMENT                                     | ROEMARK       | Filing Date: April 14,                       | 1998        | Group: 28  | 372                          |
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|                         | Document Number  | Date          | Country                                      | Class       | Subclass   | <u>Translation</u><br>Yes No |
|                         | 6-186533   | 07/08/94      | Japan  |             |  | Abstract                     |
|                         | 6-160824   | 06/07/94      | Japan  |             |  | Abstract                     |
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| - J 1-10.               | 6-289372   | 10/18/94      | Japan  | _           | -  | Abstract                     |
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|                     | 6-337418   | 12/06/94                | Japan                     |                |                  | Abstract                              |             |  |  |  |  |
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| Form PTC            | 1-1449 U.S. Department of Commerce  | IPE                                   | Atty. Docket No: 0756-             | 1790          | Serial No.  | 09/059,562                   |
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| (Rev. 8-83)         | Patent and Trademark Office   | · · · · · · · · · · · · · · · · · · · | Applicants: Toshimitsu             | KONUMA,       | et al.      |                              |
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|                     | U.S.  | PATENT                                | DOCUMENTS                          | •             |             |                              |
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|                     | 62-7022   | 01/14/87                              | Japan                              |               |             | Abstract                     |
|                     | 63-198024   | 08/16/88                              | Japan                              |               |             | Abstract                     |
| # 1 · · · · · ·     | 01-05527<br>01-120532   | 03/02/89<br>05/12/89                  | Japan<br>Japan                     | <u> </u>      |             | Abstract Abstract            |
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|                     | 03-223809   | 10/02/91                              | Japan                              |               |             | Abstract                     |
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| (Rev. 8-83)                       | Detent and Trademark Office  | E VC93                                 | Applicants: Toshimitsu I             | KONUMA,        | et al.           |                      |       |
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|                                   | 04-136814  | 05/11/92                               | Japan                                |                |                  | Abstract             |       |
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Sheet <u>1</u> of <u>5</u> Serial No. 09/059,562

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| Form PTO-1449 U.S. Department of Commerce (Rev. 8-83) Patent and Trademark Office  INFORMATION DISCLOSURE STATEMENT  (Use several sheets if necessary) |   |                                      | Applicants: Toshimitsu KONUMA, et al. |                |                    |                       |        |  |
|  |   |                                      | Filing Date: April 14, 1998           |                | Group: 2872        |                       |        |  |
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|  | 9-211465  | 08/15/97                             | Japan                                 |                |                    | Abstract              |        |  |
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Sheet 2 of 5

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| (Rev. 8-83) Patent and Trademark Office   |   |                      | Applicants: Toshimitsu KONUMA, et al.            |  |                    |                                       |  |
| INFORMATION DISCLOSURE STATEMENT          |   |                      | Filing Date: April 14, 1998                      |  | Group: 2872        |                                       |  |
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Sheet 3 of 5

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|   |  |                          | Applicants: Toshimitsu KONUMA, et al.       |                |                  |                              |
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|   | 6 337418   | 12/06/94                 | Japan                                       |                |                  | Abstract                     |
|   | 6-347807   | 12/22/94                 | - Japan                                     |                |                  | Abstract                     |
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| (Rev. 8-83) Patent and Trademark Office   |  |                                       | Applicants: Toshimitsu KONUMA, et al. |                             |  |                          |  |
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|   | 62-7022  | 01/14/87                              | Japan                                 |                             |  | Abstract                 |  |
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|   |  |               | Applicants: Toshimitsu KONUMA, et al.   |                |                                   |                       |            |
| INFORMATION DISCLOSURE STATEMENT  |  |               | Filing Date: April 14, 1998 Group: 2872 |                |                                   | 272                   |            |
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